GOVERNMENT OF INDIA
SCIENCE AND TECHNOLOGY
LOK SABHA

UNSTARRED QUESTION NO:2042
ANSWERED ON:05.08.2005
EARTHQUAKE
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Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) the major earthquakes reported during each of the last three years, location-wise; and

(b) the steps taken by the Government to create awareness among the public for the adoption of safety measures to overcome the situation arising out of earthquakes in these States?

Answer

MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF SCIENCE & TECHNOLOGY AND MINISTER OF STATE (INDEPENDENT CHARGE) OF THE DEPARTMENT OF OCEAN DEVELOPMENT (SHRI KAPIL SIBAL)

(a) No major earthquake (M=>6) has been reported in the year 2003. However, a great event of magnitude of 9.3 occurred off the coast of Sumatra Island in Indonesia on 26 December, 2004. This event was followed by 11 aftershocks in 2004 and 13 aftershocks in 2005 (till 0900 hrs IST of 29.07.2005). Details of these aftershocks is annexed.

(b) Bureau of Indian Standards (BIS), has published various guidelines for building construction and retrofitting etc. Adoption of these guidelines can help in reduction of loss of life and property due to future earthquakes. Also, the Department of Science & Technology supports periodical organisation of earthquake awareness programme in different parts of the country in the form of workshops & short term courses. A video film both in English and Hindi has been prepared for creating awareness among common people. Besides DST's efforts, Ministry of Home Affairs has also initiated several programmes dealing with earthquake education & awareness at national level.

Annexure

Details of main shock and aftershocks (M ? 6.0)of Sumatra earthquake during the year 2004

DATE TIME (IST) LAT. LONG. MAGNITUDE

Year Month Day Hour Min. Sec. (deg.N) (deg.E) (Richter Scale)

2004	12	26	06	28	51.1	3.3	96.1	9.3
2004	12	26	06	51	17.4	5.9	93.4	6.1
2004	12	26	06	52	21.1	7.2	94.3	6.1
2004	12	26	07	30	37.4	7.1	95.5	6.0
2004	12	26	09	51	27.8	7.0	92.8	7.2
2004	12	26	14	50	6.9	8.9	92.1	6.1
2004	12	26	15	49	28.7	13.3	93.2	6.1
2004	12	26	16	35	11.8	14.3	92.4	6.2
2004	12	27	06	19	35.9	13.3	91.9	6.1
2004	12	29	07	20	58.1	9.4	93.5	6.1
2004	12	29	11	26	48.9	8.9	93.1	6.0
2004	12	30	23	28	13.6	12.4	92.0	6.0

Details of aftershocks (M ? 6.0) of Sumatra earthquake during the year 2005

DATE TIME (IST) LAT. LONG. MAGNITUDE

Year Month Day Hour Min. Sec. (deg.N) (deg.E) (Richter Scale)

2005	1	1	11	55	54.6	5.7	91.9	6.6
2005	1	2	21	05	56.5	6.4	92.8	6.0
2005	1	4	14	43	13.8	10.5	92.1	6.0
2005	1	10	03	42	54.4	5.0	95.3	6.0
2005	1	24	09	46	49.8	7.6	92.4	6.3
2005	3	28	21	39	34.3	2.4	97.8	8.3
2005	4	3	08	41	1.7	2.2	97.5	6.1
2005	4	16	22	08	9.6	2.4	97.2	6.0
2005	4	28	19	37	37.2	2.4	97.0	6.1
2005	5	18	17	07	42.3	5.9	92.5	6.3
2005	5	19	07	24	53.8	2.4	97.6	6.3
2005	7	5	07	22	4.1	0.8	97.7	6.2
2005	7	24	21	12	11.0	8.3	92.3	7.2